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MODEL M4-5 FLOW METER CONTROLLED VARIABLE RATIO METER-MIX MACHINES

With the demand for verifiable ratio control, Fluid Automation Inc. introduced the M-Series machines in the late 90's. This system uses positive displacement, stainless steel flow meters to monitor the material flow from each metering pump. This ensures a correct ratio even with varying viscosities. The custom designed flow meter sensors detects any movement of the flow meter gears, regardless of the speed. Noise cancellation and flow direction corrections eliminate the possibility of false counts due to noise and check valves at the meter outlet prevent back-flow through the meter. Using the SK506 Ratio Verification option, developed by FAI in the late 90's, flow meter wear and ratio verification can be detected. An operator settable tolerance will notify the operator if the ratio of the material in the pails differs from the ratio being detected by the flow meter gears. Recalibration of the gears can then be performed to ensure the integrity of the system. The built in Ratio Sample Mode allows for simple verification of the ratio for A & B as well as third stream components. Priming modes allow each pump to be primed individually thus reducing waste. A-Purge and B-Purge Modes are available for longer shutdown periods to prevent having to clean out the mixed chambers or store them in a freezer. Base unit price includes Machine, Pneumatic Shutoff Valves For A & B Streams, Water Cooled Static Mixer and Hoses.

M4-5 FEATURES

- Medical & Industrial Modes Available
- Flow-Meter Controlled Ratio Output.
- Programmable Ratio From 1:1 to 5:1 Via Touch Screen Adjustments.
- Custom Flow Meter Sensors Specially Designed For LSR Applications.
- True Zero Speed Dual Differential Hall Effect Flow Sensors With DSP Error Cancellation And Correction Technology.
- No Minimum Flow Rate For Sensor Pickup.
- Tapered 5-Gallon O-Ring Follow Plates.
- Individual Pump Drive Air Cylinders.
- Programmable Color Percentages Using The SN751 Color Injector ~ .2 to 7%
- Low Material Level Indicators.
- Five User Selectable Modes Of Operation.
- Ratio Graph With Selectable Time Scale.
- PLC Controller With 65,536 Color Touch Screen.
- Keypad Ratio Adjustment In 1% Increments

SPECIAL OPTIONS

- Additional Fourth Stream Metering For Oils Or Pigment
- Data Acquisition Via Ethernet or USB Memory Stick.
- B240 Pumps For Greater Flow Rate
- Pail Girdles For Higher Durometer Materials
- Double O-Ring Follow Plates For Thin Materials.
- 2nd Machine Feed Capabilities

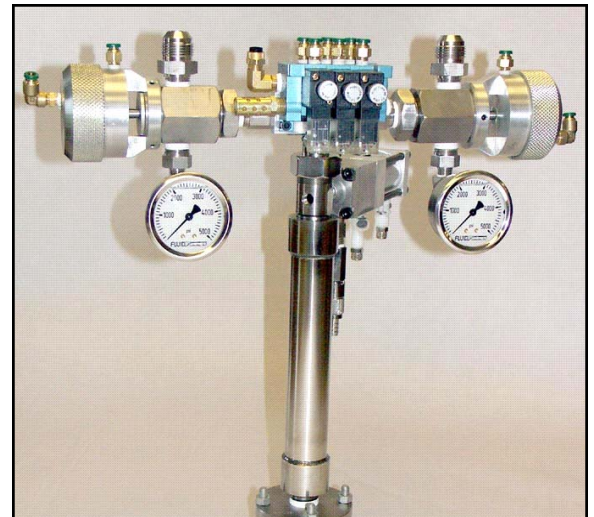
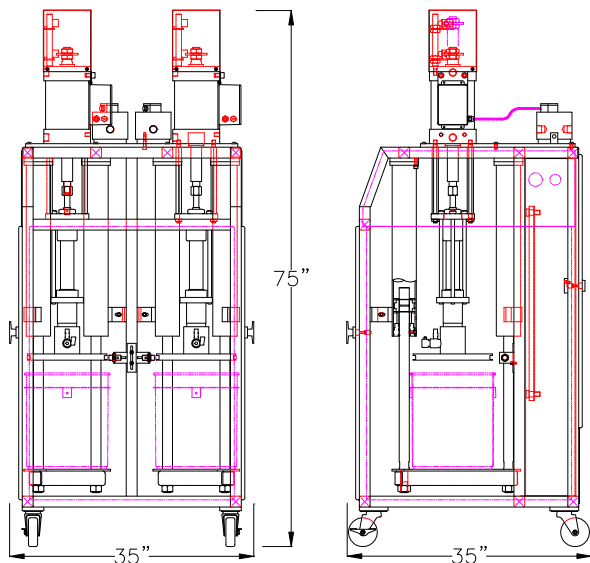


MACHINE SPECIFICATIONS

Viscosity Range:	50,000 To 3,000,000 Centipoise (CPS)
Flow Rate:	Up To 5 Lb./Min @ 500,000 Centipoise
Maximum Output Pressure:	4,200 Psi (285 Bar)
Ratio Range:	1:1 To 5:1 Adjustable In .1% Increments
Pigment Ratio Range:	.2 To 7 Percent (7% Depends On Flow Rate)
Air Requirement:	10 CFM @ 80 PSI (Maximum 100 Psi)
Power Requirement:	85-265 VAC / 50-60 Cycle / Single Phase
Electrical Current Requirement:	3 Amps.
Weight:	1100 Pounds

ISPM-15 Heat Treated Crate Required For Exportation

SPACE REQUIREMENT



M4 Manifold Assembly With Individual Shutoff Valves & Pneumatic Controls

OPTIONAL ACCESSORIES

SN751-1A Color Injector For Oils and Pigments
 SA921-G Material Pressure Regulator
 SA925-1A Screen Filter Pack
 SK506 Ratio Verification By Pail Height Monitoring
 SA907 5-Gallon Pail Girdles To Prevent Pail Rupture
 SA913 Double O-Ring Follow Plate (Requires SA907)
 Data Acquisition Via Ethernet, Compact Flash or USB Memory Stick*
 Static Mixer Substitution For Smaller Shot Sizes**

- *Standard With New 8000 Series Operator Panel*
- *May Alter Price Of Base Unit Depending On Model Selected.*

